

INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00008-rev.01** Pag. 1 / 5

(A06) Purchaser SMST CTS CTS CTS CTS CTS	(A07) Customer Order No Houston Stock Replenishment (A08) SMST-Tubes Order No 0009101310 SMST-Item (A09) Part No 0009101310-000002
--	---

(B01) (B02) (B04) **Product Description**

Seamless Stainless Steel Cold Finished Tubes Solution Annealed In Bright Condition Plain Ends Square Cut Deburred

Specifications ASME SA 213 19;ASTM A 213 19 a;ASTM A 269 15 >US units;SWAGELOK SMS-00333 REV. D
Grade TP 316;TP 316L;DMV 316L
Tolerances A 213 / A 1016 AW;ASTM A 269

(B03) **Supplementary Requirements**

None

(B06 - D01) **Marking of the Product**

Technical marking MANNESMANN MST-U A/SA-213 A-269 TP316/TP316L .250 X .035AW SML CF ET HT 352150
PHU50029531000 QL50018703 USA

Country of Origin of the tubes **USA**

Quantity						Dimensions			
(B07) Heat	Quality Lot	SMST-Item	(B08) Pieces	(B13) Weight	(B16) Length	(B09) OD	(B10) WT	(B11) Ordered Length	
								min	max
352150	QL50018703	000002	367	595.00 lbs	7340.00 ft	0.250 "	0.035 "	20.00 ft	20.01 ft

367 595.00 lbs 7340.00 ft

Heat Analysis

		Request	C	Si	Mn	P	S	Cr	Ni	Mo
	Min		0.00	0.00	0.00	0.00	0.0050	16.0	10.0	2.0
	Max		0.035	1.0	2.0	0.045	0.0150	18.0	14.0	3.0
(B07) Heat	Heat Origin	(C70) Melting Process	%	%	%	%	%	%	%	%
352150	Germany	EAF + VOD	0.014	0.44	1.49	0.021	0.0080	17.0	11.3	2.1

INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No.

5-22-00008-rev.01

Pag.

2 / 5

Product Analysis

ASTM A 213;ASME SA 213;ASTM A 269;ASTM A 480

	Request	C	Si	Mn	P	S	Cr	Ni	Mo
	Min	0.00	0.00	0.00	0.00	0.0050	16.0	10.0	2.0
	Max	0.035	1.0	2.0	0.045	0.0150	18.0	14.0	3.0
Quality Lot	(C00) Sample	%	%	%	%	%	%	%	%
QL50018703	59021234	0.014	0.44	1.49	0.021	0.0080	17.0	11.3	2.1

Sampling done on tubes in manufacturing length

Tensile Test at Room Temperature

ASTM A 370;ASTM A 632

(C02) Direction: LONGITUDINAL

(C10) Description: FULL SIZE TEST SPECIMEN

		(C11)	(C12)	(C13)
		YS 0.2%	U.T.S.	EL
		Rp 0,2%	Rm	2"
Request	Min	30	75	35.0
	Max			
Quality Lot	(C00) Sample	ksi	ksi	%
QL50018703	59021234	48	90	54.8
	59021235	48	90	54.8

Sampling done on tubes in manufacturing length

(C30) Hardness HRB

ASTM E 18

		(C30) HRB			
		Request			90.0 max
Quality Lot	(C00) Sample	Result	(C31) Min	(C31) Max	(C32) Avg
QL50018703	59021236		66	74	70.0
	59021237		69	69	69.0

Sampling done on tubes in manufacturing length

INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00008-rev.01** Pag. 3 / 5

(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018703	59021234	OK
	59021235	OK
	59022956	OK

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018703	59021234	OK
	59021235	OK
	59022956	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

(C50) Flattening Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018703	59021234	OK
	59021235	OK
	59022956	OK

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018703	59021234	OK
	59021235	OK
	59022956	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes



INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00008-rev.01** Pag. 4 / 5

Other Tests and Declarations

QL50018703

Heat Treatment Bright Annealed 1950 °F Rapid Cooling

Gas Cooling

(D01) Visual and dimensional inspection (VT) on 100% of tubes according to the order

Satisfactory

(D51) Antimixing Check (PMI) on 100% of tubes

Satisfactory

(D02) Eddy Current Testing (ET) on 100% of tubes ASTM A 1016

Satisfactory

Intergranular Corrosion Test per ASTM A-262 Pr.E

Satisfactory

No Weld Repair

(Z01) SMST declares that the product was manufactured, sampled, tested, inspected and packed in accordance with the specifications and any other requirements designated in the purchase order within the extent listed in SMST order acknowledgment, and has been found to meet such requirements

Tubes are free from mercury contamination and from radioactive contamination

The material is conforming to directive 2000/53/EC and 2011/65/EU

Confirmation with reference to Pressure Equipment Directive 2014/68/EU:

The works operates a quality management system that has undergone a specific assessment for materials for pressure equipment and is certified by a competent body (ABS QE Cert. No. 42608)

(Z02) Mill's Inspector

Noel Villatoro

Date of Edition

01/15/2022

This certificate is issued by SALZGITTER MANNESMANN STAINLESS TUBES via a computerized system bearing a traceable unique number. It is valid without signature. An intermediary may only pass on the original certificate without any alterations. Providing a copy of the original is only permitted subject to strict compliance with the prerequisites set out in § 6 of EN 10204:2004 i.e. traceability and availability of the original upon request. Any modification or alteration of the certificate or any copies are strictly prohibited. Any contravention of this notice or § 6 of EN 10204:2004 is illegal and will be prosecuted. Any falsification of a certificate e.g. by introducing false or fraudulent data for the purpose of promoting the sales of goods is a criminal offence under German law (and many other jurisdictions) punishable with fines and imprisonment. If an authentication is needed, please contact info@mst.mannesmann.com



INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

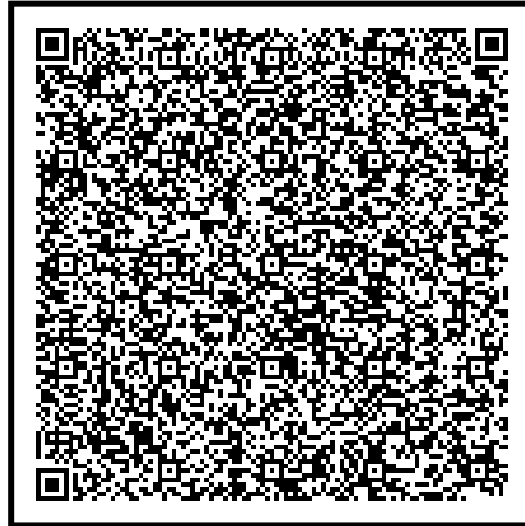
(A03) No.

5-22-00008-rev.01

Pag.

5 / 5

Certificate anti counterfeiting check



**A set of information from the Inspection Certificate cover page are included in encrypted form in the above QR code.
By scanning it with your mobile device you can check if the Inspection Certificate is genuine.**